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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATI		
10/008,435 11/13/2001		Markku Henriksson	796.415USW1	3030	
22865 75	590 11/02/2004		EXAMINER		
ALTERA LAW GROUP, LLC			SAMS, MATTHEW C		
6500 CITY WE SUITE 100	EST PARKWAY		ART UNIT	PAPER NUMBER	
MINNEAPOLIS, MN 55344-7704			2643		
			DATE MAILED: 11/02/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.



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Office Action Summary		Applicati	on No.	Applicant(s)	91			
		10/008,4	35	HENRIKSSON, MARKKU	J			
		Examine	r	Art Unit				
		Matthew		2643				
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A SHOF THE MA - Extensio after SIX - If the per - If NO per - Failure to Any repl	RTENED STATUTORY PERIOD FO ALLING DATE OF THIS COMMUNIONS of time may be available under the provisions of time may be available under the provisions of (6) MONTHS from the mailing date of this commit riod for reply specified above is less than thirty (30 riod for reply is specified above, the maximum state or reply within the set or extended period for reply y received by the Office later than three months at patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no evunication. o) days, a reply within the statutory period will apply and wwill, by statute, cause the ap	vent, however, may a reply be to tutory minimum of thirty (30) da vill expire SIX (6) MONTHS fror plication to become ABANDON	imely filed ays will be considered timely. m the mailing date of this communica ED (35 U.S.C. & 133).	ation.			
Status								
1)⊠ R	esponsive to communication(s) file	d on 13 November 2	2001.		!			
<u> </u>								
3)□ Si	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition	·	The second secon	,,	, 55 5.5. = 15.				
4)⊠ C; 4a 5)□ C; 6)⊠ C; 7)⊠ C;	 Claim(s) 12-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 12-22 is/are rejected. Claim(s) 16-18 is/are objected to. Claim(s) are subject to restriction and/or election requirement. 							
Application	ı Papers							
10)⊠ Th Ap Re	ne specification is objected to by the see drawing(s) filed on 11/13/2001 is objected that any objected that any objected to oath or declaration is objected to	/are: a)⊠ accepted tion to the drawing(s) the correction is requi	be held in abeyance. So red if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.12	, ,			
Priority und	der 35 U.S.C. § 119							
12)⊠ Ac a)⊠ 1. 2. 3.	knowledgment is made of a claim of All b) Some * c) None of: Certified copies of the priority of Certified copies of the priority of Copies of the certified copies of application from the Internation of the attached detailed Office actions.	documents have beed documents have beed of the priority document Bureau (PCT Ru	en received. en received in Applica ents have been receiv le 17.2(a)).	tion No ved in this National Stage				
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	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (P	TO 049)	4) Interview Summar Paper No(s)/Mail [y (PTO-413) Date				
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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed 11/13/2001 has been considered.

Claim Objections

1. Claims 16-18 are objected to because of the following informalities: "patent claim 14" is unclear because this is a reference to a patent which is not disclosed. A claim can be dependent upon an independent claim, but not another patent claim. Recommending the removal of "parent".

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this
 Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 12-16 and 19-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Ahonen (US-5,574,981 herein after, Ahonen).

Regarding claim 12, Ahonen discloses a method of testing a transceiver that includes a test loop between the transmission branch and the reception branch, where the test loop includes transmission and reception coupling, a pass

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band filter (Fig. 1 [7]) and a reason for the signal to travel through the test loop. (Fig. 1 & 2, Col. 2 lines 45-60 and Col. 3 lines 19-31) Ahonen discloses that the transmitter will generate a test signal in the reception frequency, transmit the test signal and receive the test signal after passing through the test loop. (Col. 2 lines 65-68 and Col. 3 lines 1-5 and 32-37) The mention of a duplex filter is not necessary within the scope of the testing loop.

Regarding claim 13, Ahonen discloses a method of testing a transceiver where the transmission test signal is tuned to the reception frequency. Ahonen discloses that the receiver will be set to receive the test signal that was attenuated when it passed through the test loop filter. (Col. 2 lines 65-68, Col. 3 lines 1-5 & 32-43 and Fig. 1 [9])

Regarding claim 14, Ahonen discloses a method of testing a system comprising several radio tranceivers. (Col. 4 lines 57-58 and Fig. 2) Ahonen discloses a combiner (Fig. 2 [22]), a pass band filter (Fig. 1 [7]), a divider (Fig. 2 [29]), a switch (Fig. 1 [S1 and Fig. 2 [S2])], a transceiver coupler, a receiver coupler, a test loop with less attenuation and a test signal. (Fig. 1 & 2, Col. 2 lines 45-60 and Col. 3 lines 19-31) Ahonen discloses that the transmitter will generate a test signal in the reception frequency, transmit the test signal and receive the test signal after passing through the test loop. (Col. 2 lines 65-68 and Col. 3 lines 1-5 and 32-37) Ahonen discloses that using a duplex filter before the receiver section can separate signals. (Col. 1 lines 35-40)

Regarding claim 15, the limitations of the claim are rejected as the same reason set forth in claim 14.

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Regarding claim 16, Ahonen discloses multiple transmitters and receivers.

(Col. 4 lines 57-58) It is well known in the art that if multiple copies of the same transmission are sent to identical receivers and one receiver has a different result, it is defective.

Regarding claim 19, Ahonen discloses a method of testing a transceiver that includes a test loop between the transmission branch and the reception branch, where the test loop includes transmission and reception coupling, a pass band filter (Fig. 1 [7]), a signal generator and a reason for the signal to travel through the test loop. (Fig. 1 & 2, Col. 2 lines 45-60 and Col. 3 lines 19-31)

Ahonen discloses that the transmitter will generate a test signal in the reception frequency, transmit the test signal and receive the test signal after passing through the test loop. (Col. 2 lines 65-68 and Col. 3 lines 1-5 and 32-37)

Ahonen discloses that when a switch opens in the test loop path, the test signal will not go to the receiving branch, but rather to the antenna. (Fig. 1 and Col. 3 lines 37-51)

Regarding claim 20, the limitations of the claim are rejected as the same reason set forth in claim 19.

Regarding claim 21, Ahonen discloses a test frequency that is outside the frequency band allocated for traffic. (Col. 2 lines 20-26)

Regarding claim 22, the limitations of the claim are rejected as the same reason set forth in claim 19. The location of the test filter is disregarded because the function of the system is still the same.

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Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 17 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ahonen in further view of Tamii et al. (US-4,949,090 herein after, Tamii).

Regarding claim 17, Ahonen discloses all the limitations of claim 14.

Ahonen differs from the claimed invention in that he failed to disclose the sending of the test signal one by one. However, Tamii discloses a testing system that allows for the modification of sending the test signal one by one. (Col. 4 lines 65-68 and Col. 5 lines 1-2) At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use the measuring techniques of Ahonen with the flexibility of Tamii. One of ordinary skill in the art would have been motivated to do this since it makes it possible to accurately diagnose the problem. (Col. 1 lines 43-49)

Regarding claim 18, the limitations of the claim are rejected as the same reason set forth in claim 17.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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US-6,505,041 to Borgstrand regarding a radio system that sends test signals outside of the frequency band of the receiver.

US-6,208,621 to Ducaroir et al. regarding the testing of two transceivers.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew C. Sams whose telephone number is (703)305-0810. The examiner can normally be reached on M-F 7:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curtis Kuntz can be reached on (703)305-4708. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MCS 10/28/2004

GEORGE ENG | PRIMARY EXAMINER